

## Claims

1. A balloon catheter (1) comprising
  - a catheter shaft (2), at the distal end (3) of which an inflatable balloon (4) is arranged and at the proximal end (5) of which a connecting piece (6) is arranged;
  - a guiding wire (7) which can be passed through a guiding wire lumen (8) of the catheter shaft (2) from the proximal end (5) to the distal end (3) and through the balloon (4); and
  - an inflation or deflation lumen (9) extending from the proximal end (5) of the catheter shaft (2) to the balloon (4),characterized in that
  - a portion (10) of the catheter shaft (2) having a selectable length (L) and extending from the proximal end (5) is provided with at least one reinforcing pipe (11).
2. The catheter according to claim 1, characterized in that the guiding wire lumen (8) is extending in the reinforcing pipe (11).
3. The catheter according to claim 1 or 2, characterized in that the inflation lumen (9) is extending in the reinforcing pipe (11).
4. The catheter according to one of claims 1 to 3, characterized in that the reinforcing pipe (11) is made of metal, in particular stainless steel.
5. The catheter according to one of claims 1 to 4, characterized in that a transitional portion (15) between

the reinforcing pipe (11) and a second catheter shaft portion (13) is provided with a kink protection (14).

6. The catheter according to claim 5, characterized in that the kink protection (14) is formed as a case (14) arranged on the catheter shaft (2) and exceeding the transitional portion.
7. The catheter according to claim 5 or 6, characterized in that the kink protection (14) is formed as a metal spring bridging the transitional portion in the wall of the catheter shaft (2).
8. The catheter shaft according to claim 5 or 6, characterized in that the kink protection (14) is formed as a metal spring arranged in the inflation or deflation lumen (9).
9. The catheter according to one of claims 1 to 8, characterized in that a stent may be disposed on the balloon (4).
10. The catheter according to claim 1, characterized in that the catheter shaft (2) comprises two concentric pipes (11, 13 or 12) which are connected in order to increase the pushability.
11. The catheter according to claim 5, characterized in that the kink protection (14) is formed as a nylon tube coating.
12. The catheter according to claims 1 to 10, characterized in that the reinforcing pipe (11) consists of plastics.
13. The catheter according to claim 4, characterized in that the metal reinforcing pipe (11) is provided with an inner coating made of plastics.

14. The catheter according to claim 1, characterized in that the guiding wire lumen (8) and the inflation lumen (9) are extending in the reinforcing pipe (11).